

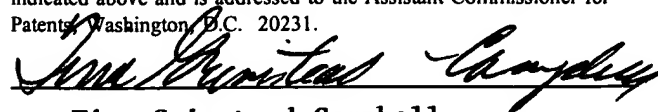
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APPENDIX C

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Tina Grimstead-Campbell

APPENDIX C

Byte codes supported by the Card JVM in the preferred embodiment

AALOAD	AASTORE	ACONST_NULL
ALOAD	ALOAD_0	ALOAD_1
ALOAD_2	ALOAD_3	ARETURN
ARRAYLENGTH	ASTORE	ASTORE_0
ASTORE_1	ASTORE_2	ASTORE_3
ATHROW	BALOAD	BASTORE
CHECKCAST	DUP	DUP2
DUP2_X1	DUP2_X2	DUP_X1
DUP_X2	GETFIELD	GETSTATIC
GOTO	IADD	IALOAD
LAND	IASTORE	ICONST_0
ICONST_1	ICONST_2	ICONST_3
ICONST_4	ICONST_5	ICONST_M1
IDIV	IFEQ	IFGE
IFGT	IFLE	IFLT
IFNE	IFNONNULL	IFNULL
IF_ACMPEQ	IF_ACMUNE	IF_ICMPEQ
IF_ICMPGE	IF_ICMPGT	IF_ICMPLE
IF_ICMPLT	IF_ICMPNE	IINC
ILOAD	ILOAD_0	ILOAD_1
ILOAD_2	ILOAD_3	IMUL
INEG	INSTANCEOF	INT2BYTE
INT2CHAR	INT2SHORT	INVOKEINTERFACE
INVOKENONVIRTUAL	INVOKESTATIC	INVOKEVIRTUAL
IOR	IREM	IRETURN
ISHL	ISHR	ISTORE
ISTORE_0	ISTORE_1	ISTORE_2
ISTORE_3	ISUB	IUSHR
IXOR	JSR	LDC1
LDC2	LOOKUPSWITCH	NEW
NEWARRAY	NOP	POP
POP2	PUTFIELD	PUTSTATIC
RET	RETURN	SALOAD
SASTORE	SIPUSH	SWAP
TABLESWITCH	BIPUSH	

Standard Java byte codes numbers for the byte codes supported in the preferred embodiment

package util;

```
/*
 * List of actual Java Bytecodes handled by this JVM
 * ref. Lindholm and Yellin.
 *
 * Copyright (c) 1996 Schlumberger Austin Products Center,
 * Schlumberger, Austin, Texas, USA.
 */
```

```
public interface BytecodeDefn {
    public static final byte j_NOP = (byte)0;
    public static final byte ACONST_NULL = (byte)1;
    public static final byte ICONST_M1 = (byte)2;
    public static final byte ICONST_0 = (byte)3;
    public static final byte ICONST_1 = (byte)4;
    public static final byte ICONST_2 = (byte)5;
    public static final byte ICONST_3 = (byte)6;
    public static final byte ICONST_4 = (byte)7;
    public static final byte ICONST_5 = (byte)8;
    public static final byte BIPUSH = (byte)16;
    public static final byte SIPUSH = (byte)17;
    public static final byte LDC1 = (byte)18;
    public static final byte LDC2 = (byte)19;
    public static final byte ILOAD = (byte)21;
    public static final byte ALOAD = (byte)25;
    public static final byte ILOAD_0 = (byte)26;
    public static final byte ILOAD_1 = (byte)27;
    public static final byte ILOAD_2 = (byte)28;
    public static final byte ILOAD_3 = (byte)29;
    public static final byte ALOAD_0 = (byte)42;
    public static final byte ALOAD_1 = (byte)43;
    public static final byte ALOAD_2 = (byte)44;
    public static final byte ALOAD_3 = (byte)45;
    public static final byte IALOAD = (byte)46;
    public static final byte AALOAD = (byte)50;
    public static final byte BALOAD = (byte)51;
    public static final byte CALOAD = (byte)52;
    public static final byte ISTORE = (byte)54;
    public static final byte ASTORE = (byte)58;
    public static final byte ISTORE_0 = (byte)59;
    public static final byte ISTORE_1 = (byte)60;
    public static final byte ISTORE_2 = (byte)61;
    public static final byte ISTORE_3 = (byte)62;
    public static final byte ASTORE_0 = (byte)75;
    public static final byte ASTORE_1 = (byte)76;
    public static final byte ASTORE_2 = (byte)77;
    public static final byte ASTORE_3 = (byte)78;
    public static final byte IASTORE = (byte)79;
    public static final byte AASTORE = (byte)83;
    public static final byte BASTORE = (byte)84;
    public static final byte CASTORE = (byte)85;
    public static final byte POP = (byte)87;
    public static final byte POP2 = (byte)88;
    public static final byte DUP = (byte)89;
    public static final byte DUP_X1 = (byte)90;
    public static final byte DUP_X2 = (byte)91;
    public static final byte DUP2 = (byte)92;
    public static final byte DUP2_X1 = (byte)93;
    public static final byte DUP2_X2 = (byte)94;
    public static final byte SWAP = (byte)95;
    public static final byte IADD = (byte)96;
    public static final byte ISUB = (byte)100;
    public static final byte IMUL = (byte)104;
    public static final byte IDIV = (byte)108;
    public static final byte IREM = (byte)112;
```

```

public static final byte INEG = (byte)116;
public static final byte ISHL = (byte)120;
public static final byte ISHR = (byte)122;
public static final byte IUSHR = (byte)124;
public static final byte IAND = (byte)126;
public static final byte IOR = (byte)128;
public static final byte IXOR = (byte)130;
public static final byte IINC = (byte)132;
public static final byte INT2BYTE = (byte)145;
public static final byte INT2CHAR = (byte)146;
public static final byte INT2SHORT = (byte)147;
public static final byte IFEQ = (byte)153;
public static final byte IFNE = (byte)154;
public static final byte IFLT = (byte)155;
public static final byte IFGE = (byte)156;
public static final byte IFGT = (byte)157;
public static final byte IFLE = (byte)158;
public static final byte IF_ICMPEQ = (byte)159;
public static final byte IF_ICMPNE = (byte)160;
public static final byte IF_ICMPLT = (byte)161;
public static final byte IF_ICMPGE = (byte)162;
public static final byte IF_ICMPGT = (byte)163;
public static final byte IF_ICMPLE = (byte)164;
public static final byte IF_ACMPEQ = (byte)165;
public static final byte IF_ACMPLT = (byte)166;
public static final byte GOTO = (byte)167;
public static final byte j_JSR = (byte)168;
public static final byte RET = (byte)169;
public static final byte TABLESWITCH = (byte)170;
public static final byte LOOKUPSWITCH = (byte)171;
public static final byte IRETURN = (byte)172;
public static final byte ARETURN = (byte)176;
public static final byte RETURN = (byte)177;
public static final byte GETSTATIC = (byte)178;
public static final byte PUTSTATIC = (byte)179;
public static final byte GETFIELD = (byte)180;
public static final byte PUTFIELD = (byte)181;
public static final byte INVOKEVIRTUAL = (byte)182;
public static final byte INVOKENONVIRTUAL = (byte)183;
public static final byte INVOKESTATIC = (byte)184;
public static final byte INVOKEINTERFACE = (byte)185;
public static final byte NEW = (byte)187;
public static final byte NEWARRAY = (byte)188;
public static final byte ARRAYLENGTH = (byte)190;
public static final byte ATHROW = (byte)191;
public static final byte CHECKCAST = (byte)192;
public static final byte INSTANCEOF = (byte)193;
public static final byte IFNULL = (byte)198;
public static final byte IFNONNULL = (byte)199;

```

}